

Attorney Docket No. P46-US

REMARKS

In this application, claims 1-60 are pending. No claims stand allowed. New claims 61-80 are added. Of the pending claims, claims 1, 20, 28, and 36 are in independent form. Of the new claims, claims 61, 69, and 77 are in independent form.

In the Office Action mailed August 16, 2004, the examiner rejected claims 1-3, 6, 10, 13-17, 19-26, and 28-34 under 35 U.S.C. 102(b) as being anticipated by Cosentino (US 5,103,301). The examiner rejected claim 4 under 35 U.S.C. 103(a) as being unpatentable over Cosentino in view of Guerinot (US 6,147,720). The examiner rejected claim 5 under 35 U.S.C. 103(a) as being unpatentable over Cosentino in view of Kunzman (US 6,392,717). The examiner rejected claims 7-9 and 11 under 35 U.S.C. 103(a) as being unpatentable over Cosentino in view of Poradish (US 5,650,832). The examiner rejected claim 12 under 35 U.S.C. 103(a) as being unpatentable over Cosentino in view of Sato (US 6,467,910). The examiner rejected claims 27 and 35 under 35 U.S.C. 103(a) as being unpatentable over Cosentino in view of Kunzman (US 6,536,904). The examiner rejected claim 36-41, 45, 48-52, 54, 56, and 58-59 under 35 U.S.C. 103(a) as being unpatentable over Kunzman (US 6,392, 717) in view of Cosentino. The examiner rejected claim 42-44, 46, 55, and 60 under 35 U.S.C. 103(a) as being unpatentable over Kunzman (US 6,392,717) in view of Cosentino. The examiner rejected claim 47 under 35 U.S.C. 103(a) as being unpatentable over Kunzman (US 6,392,717) in view of Cosentino and Sato.

Applicant respectfully submits that claim 1 as amended is not anticipated by Cosentino. Claim 1 explicitly recites a set of segments, one of which is constructed such that, when intersected by a first circle having a first radius and centered as the same center of the color wheel, a first arc of the first circle within said segment occupies a first percentage of the circumference of the first circle; when intersected by a second circle having a second radius and centered as the same center of the color wheel, a second arc of the second circle within said segment occupies a second percentage of the circumference of the second circle; and wherein the first and second percentage are different. This feature is neither disclosed nor suggested by Cosentino. In contrast, the segments of the color wheel set forth in Cosentino are constructed such that for a given radius, the segments occupy equal percentage of circumference at that given radius. Since Cosentino fails in teaching or suggesting all features set forth in claim 1 as amended, the amended claim 1 is allowable over Cosentino, as well as claims 2-19 that are dependent from claim 1.

As for independent claim 20, claim 20 has been amended to explicitly recite that at least another one of the transitions immediately following said one transition is curved but in opposite direction to said one transition. Even though the transitions (e.g. the boundaries of adjacent segments) of Cosentino are curved, those transitions are curved in the same direction, as illustrated in FIGs. 2 and 6 in Cosentino. Since Cosentino fails to teach or suggest all limitations set forth in claim 20 as amended, the amended

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claim 20 is allowable over Cosentino, as well as claims 21 to 27 that are dependent from claim 20.

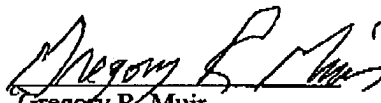
Independent claim 28 as amended recites, among others, that at least one of the segments is a higher brightness segment than the others and has sides facing adjacent filter segments; wherein said sides are not long the radiuses of the wheel; and wherein said adjacent segments are immediately bordered. In contrast, all filter segments of the color wheel set forth in Cosentino lie on the radiuses of the color wheel. Since Cosentino does not teach or suggest all recited features of claim 28 as amended, the amended claim 28, as well as claims 29 to 35, is allowable over Cosentino.

Independent claim 36 as originally filed recites features of claim 1. It is allowable over Cosentino for at least the same reasons set forth above for the allowability of claim 1. Claims 37 to 60 depend from claim 35, they are allowable over Cosentino as they depend from an allowable base claim.

New independent claim 61 is directed to a projection system, and expressly recites, among others, a color wheel that comprises a set of segments, when along the radius of wheel, the amount of time that a particular one of the segments remains in the light beam when the wheel is spinning, changes relative to the other segments. Such color wheel is nowhere disclosed or suggested by any cited references, including Cosentino, Guerinot, Kunzman, Poradish, Sato, or any combination thereof.

The application is considered in good and proper form for allowance, and the Examiner is respectfully requested to pass this application to issue. In the event any fees are required in connection with this paper, please charge our Deposit Account No. 501516.

Respectfully submitted,



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